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# Evolution of Data Creation, Management, Publication, and Curation in the Research Process

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# EVOLUTION OF DATA CREATION, MANAGEMENT, PUBLICATION, AND CURATION IN THE RESEARCH PROCESS

PAPER 14-0664: A CASE STUDY FROM PURDUE

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**#TRBAM**

**Monday, January 13, 2014**

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# PUBLICATIONS AND DATA CHANGES IN PUBLIC POLICY

# CHANGES IN PUBLIC POLICY

## **National Institutes of Health (NIH) – 2003**

*“The NIH expects and supports the timely release and sharing of final research data from NIH-supported studies for use by other researchers.”*

## **National Institutes of Health (NIH) – 2008**

*“It requires scientists to submit final peer-reviewed journal manuscripts that arise from NIH funds to the digital archive PubMed Central upon acceptance for publication.”*

## **National Science Foundation (NSF) – 2011**

*“Plans for data management and sharing of the products of research. Proposals must include a supplementary document of no more than two pages labeled ‘Data Management Plan’. This supplement should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results.”*

## **White House Office of Science and Technology Policy (OSTP) – 2013**

*“The Office of Science and Technology Policy (OSTP) hereby directs each Federal agency with over \$100 million in annual conduct of research and development expenditures to develop a plan to support increased public access to the results of research funded by the Federal Government. Further, each agency plan for **both scientific publications and digital scientific data...**”*

# TRANSPORTATION RESEARCH

## POLICY CHANGES TO FOLLOW?

### **State Planning and Research (SPR) Funds**

- **Approximately \$190 Million/year**

### **Federal Highway Administration (FWHA)**

- **Reduction of duplicative research activities**

### **U.S. Department of Transportation**

- **Response to OSTP Memo**



# PAST PRACTICES

# PAST PRACTICES

## ACCESSIBILITY AND DISCOVERABILITY OPPORTUNITIES



### AASHTO Research Committee Awards 2013 Sweet Sixteen High Value Research Projects

The Research Advisory Committee (RAC) to the American Association of State Highway and Transportation Officials' Standing Committee on Research (SCOR) awarded its 2013 Sweet Sixteen High Value Research Projects at the AASHTO Annual Meeting, held in last month in Denver.

Each year, RAC collects High Value Research highlights from state transportation departments across the nation to showcase projects that are providing transportation excellence through research. This year's "Research Sweet 16" winners are:

#### Region 1

- Connecticut Department of Transportation: Use of Streaming Media and Digital Media Technologies at CTDOT
- District Department of Transportation: Innovative Bicycle Facility Research and Analysis
- Maine Department of Transportation: Use of Moisture Induced Stress Testing to Evaluate Stripping Potential of Hot Mix Asphalt (HMA)
- New Jersey Department of Transportation: Elimination of Weight Restriction on Amtrak, NJ Transit, and Conrail Line

#### Region 2


- Arkansas State Highway and Transportation Department: Design, Construction and Monitoring of Roller Compacted Concrete Pavement in the Fayetteville Shale Play
- Florida Department of Transportation: Aging Driver and Pedestrian Safety: Human Factors Studies
- Georgia Department of Transportation: Recommended Guide for Next Generation of Transportation Design-Build Procurement and Contracting in the State of Georgia
- Louisiana Department of Transportation and Development: Louisiana Legislature Acts on Research to Add Additional Axle to Overloaded Sugar Cane Trucks

#### Region 3

- Illinois Department of Transportation: Best Practices for Implementation of Tack Coat Technical Review Panel (TRP) Recommendations
- Indiana Department of Transportation: Analysis and Methods of Improvements of Safety at High-Speed Rural Intersections
- Iowa Department of Transportation: Evaluation of the RapidAir 457 Air Void Analyzer
- Michigan Department of Transportation: Impact of Non-Freeway Rumble Strips – Phase 1

#### Region 4

- California Department of Transportation: Accident Risk Analysis Tool
- South Dakota Department of Transportation: Energy Management Program for SDDOT
- Utah Department of Transportation: Identifying Characteristics of High-Risk Intersections for Pedestrians and Cyclists
- Wyoming Department of Transportation: Variable Speed Limit System for I-80 Elk Mountain, Wyoming, Corridor



# CASE STUDY

## PURDUE LIBRARIES & THE JOINT TRANSPORTATION RESEARCH PROGRAM



# INTRODUCING JTRP

## JOINT TRANSPORTATION RESEARCH PROGRAM

**JTRP** Transportation innovation since 1937 CELEBRATING 75 YEARS

**JTRP RESEARCH YIELDS GOVERNOR'S AWARD**

Fifteen INDOT employees were recognized by Governor Daniels for implementing the JTRP Research Recommendations from SPR-3411, "Recovering Full Repair Costs of INDOT Infrastructure Damaged by Motor Vehicle Crashes."

[More Info >>](#)

← PREVIOUS NEXT →

Mission Purdue Road School Research Projects Administration Principal Investigator Resources

**RECENT REPORTS**

- INDOT Technical Training Plan
- Use of Barriers in Rural Open Road Conditions—A Synthesis Study
- INDOT Construction Inspection Priorities
- Dowel Bar Retrofit Mix Design and Specification
- Evaluation of Reclaimed Asphalt Pavement for Surface Mixtures
- [More Reports >>](#)

**NEWS**

- JTRP Moves to New Location
- INDOT Team Receive Governor's Award for Implementing JTRP Research Recommendations
- 2012 Purdue Road School
- Students Receive USDOT Eisenhower Fellowship
- Research Implementation Featured on Fox59
- [Past News >>](#)

**SPOTLIGHTS**

- Digitization of JTRP Technical Reports Completed
- Recent News Articles Highlighting Traffic Signal Research Implementations
- Purdue Civil Engineering Building Named in Honor of Former JTRP Student
- Purdue Institute of Traffic Engineers Student Chapter Wins District "Traffic Bowl" and Headed to Atlanta in August for National Competition
- [More Spotlights >>](#)

JTRP: Room 303 ENAD, 400 Centennial Mall Drive, West Lafayette, IN 47907-2010 ([Click for Google Map](#))  
Phone: (765) 494-6508 or Email: [jtrp@purdue.edu](mailto:jtrp@purdue.edu)  
If you have trouble accessing this page because of a disability, please contact the Webmaster at [webmaster-ca@ecn.purdue.edu](mailto:webmaster-ca@ecn.purdue.edu).

Established 1936 as a collaboration between INDOT and Purdue

Now a \$5.3M annual investment in around 270 Purdue University students, faculty, and staff

Goal is to improve the efficiency of the Indiana transportation system and infrastructure

# ALL HANDS MEETINGS

## PUL AND JTRP

Meetings (March-June 2013):

- Purdue University Libraries (PUL)
- JTRP-PUL Meeting

Shared goals:

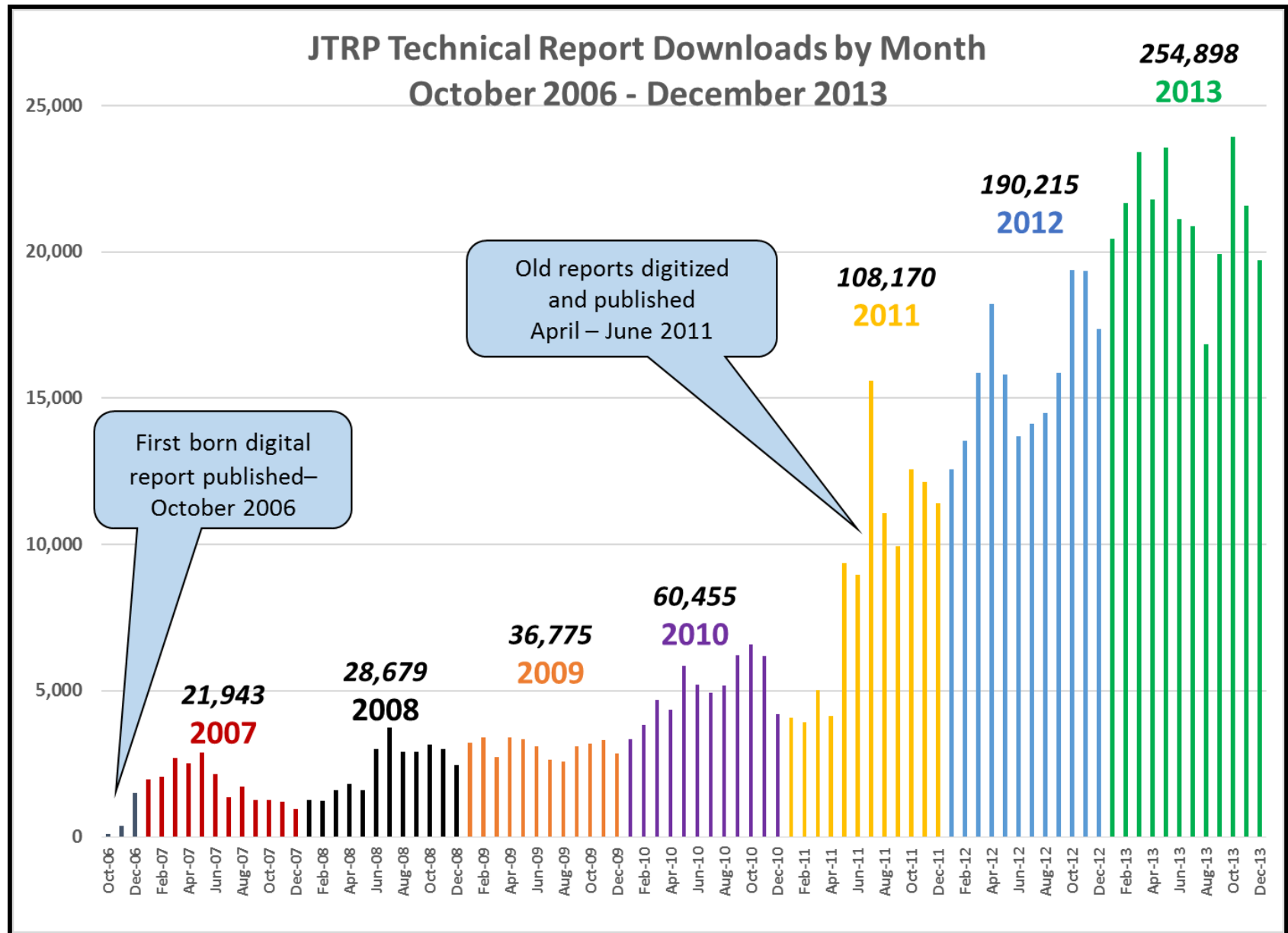
- Compliance with funder requirements
- Expose data
- Create an integrated publishing workflow linking tech reports and data

Actions:

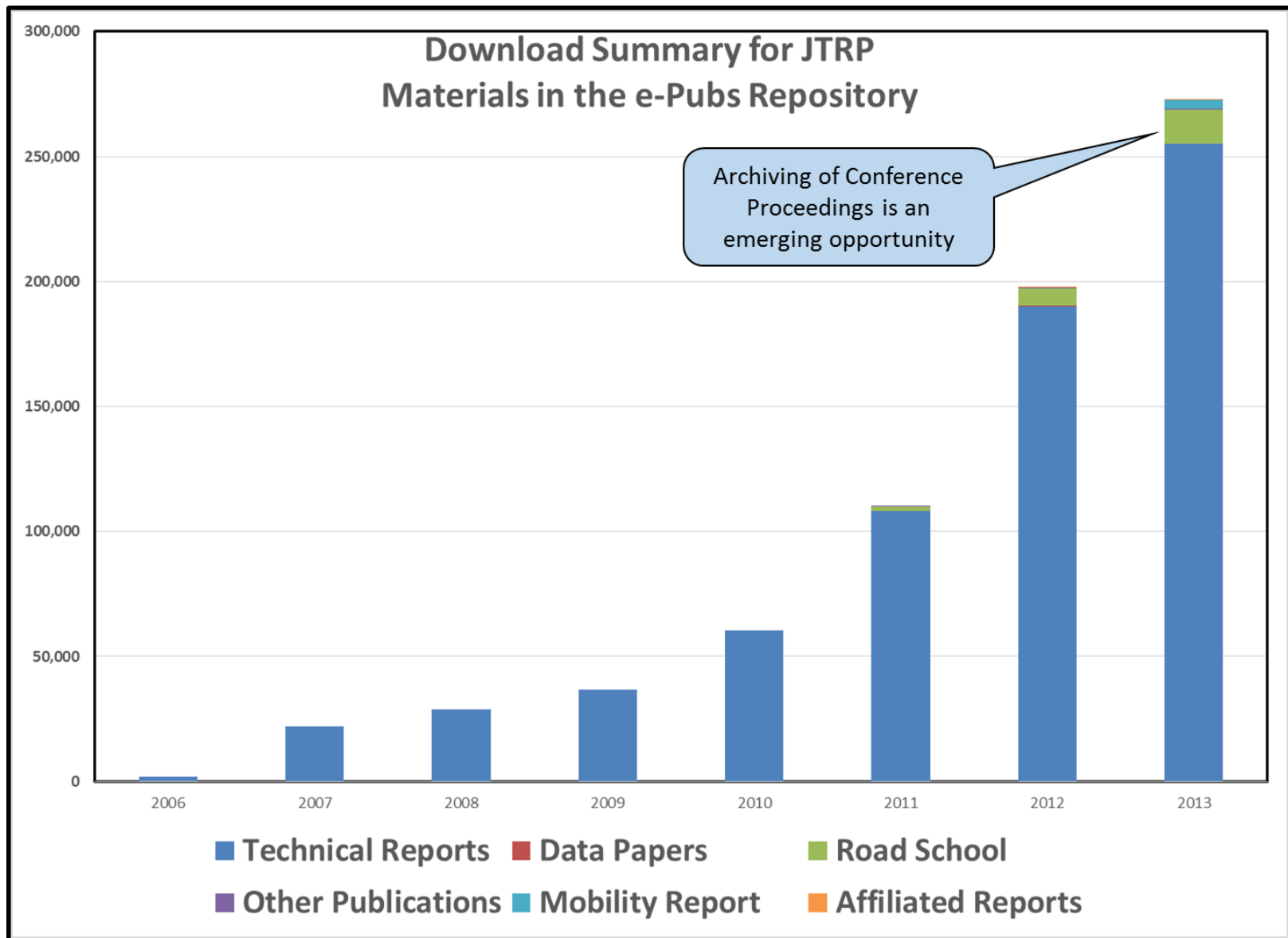
- Identify use case
- Stage datasets in PURR
- Format and stage tech report
- Linking the data



# PUBLICATION IMPACT



# PUBLICATION IMPACT





# EVOLVING WORKFLOWS

PURDUE UNIVERSITY PRESS/PURDUE E-PUBS/JTRP

From...



To...

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- Style Guidelines
- Policies and Help Documentation

**Links**

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- Purdue University Press Journals
- Joint Transportation Research Program
- Purdue Road School

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- Collections
- Authors

**PURDUE UNIVERSITY LIBRARIES**

Home > [JTRPROGRAM](#) > [JTRP](#)

**JTRP TECHNICAL REPORTS**

This Web page portal lists over 1,500 technical reports published as part of the JHRP, and subsequently JTRP, collaborative venture between [Purdue University](#) and the [Indiana Department of Transportation](#). Additional details regarding the [history of JHRP](#), as well as [current activities of the JTRP program](#), can be found by clicking on the respective hyperlinks.

**Technical Reports from 2012**

FHWA/IN/JTRP-2012/01, [Analysis and Methods of Improvement of Safety at High-Speed Rural Intersections](#), Andrew P. Tarko, Samuel Leckrone, and Panagiotis Anastasopoulos, SPR-3316

FHWA/IN/JTRP-2012/02, [Identifying Traffic Safety Needs – A Systematic Approach: Research Report and User Manual](#), Andrew P. Tarko, Shafiu Md Azam, Jose Thomaz, and Mario Romero, SPR-3315

FHWA/IN/JTRP-2012/03, [Evaluation of Reclaimed Asphalt Pavement for Surface Mixtures](#), Rebecca S. McDaniel, Karol J. Kowalski, and Ayesha Shah, SPR-3018

FHWA/IN/JTRP-2012/04, [Evaluation of Pavement Surface Friction Treatments](#), Shuo Li, Samy Noureldin, Yi Jiang, and Yanna Sun, SPR-3088

FHWA/IN/JTRP-2012/06, [Application of Travel Time Information for Traffic Management](#), Christopher M.



# REPOSITORIES

# A SERVICE MODEL OF COLLABORATION

Purdue e-Pubs and the Purdue University Research Repository (PURR)

## Publications

The screenshot shows the Purdue e-Pubs website. The header features the Purdue University logo and the text "e-Pubs". Below the header is a navigation bar with links: Home, About, FAQ, and My Account. The main content area is divided into several sections. On the left, there is a search bar with the text "Enter search terms:" and a "Search" button. Below the search bar is a dropdown menu labeled "in this repository". To the right of the search bar is a section titled "Browse and Search by:" with a "Follow" button. Below this are several links: "Author Names", "Departments and Centers at Purdue", "Purdue University Press", and "Doctoral Dissertations". In the center, there is a paragraph describing the service: "Purdue e-Pubs is a service of the Purdue University Libraries, providing online publishing support for original publications as well as hosting for Purdue-affiliated articles, reports, conference proceedings, student scholarship, and more. Contact the [Libraries](#) to discuss opportunities to bring additional Purdue-affiliated scholarship online." To the right of this paragraph is a circular graphic with the text "Explore works in 450 disciplines". Below the graphic is a link "View Larger →". On the far left, there is a section titled "Links for Authors" with links for "Submit Research", "Policies and Help Documentation", and "Author Addendum". Below this is a section titled "Browse" with links for "Collections", "Disciplines", and "Authors". At the bottom of the page, there is a footer with the Digital Commons logo and the text "powered by bepress".

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**e-Pubs**

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in this repository

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Notify me via email or RSS

**Links for Authors**

Submit Research  
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## Data

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**What is PURR?**

The [Purdue University Research Repository \(PURR\)](#) provides an online, collaborative working space and data-sharing platform to support the data management needs of Purdue researchers and their collaborators.

[Play Video](#)

**Start Your Research Project**

**Create a Data Management Plan**  
Learn about the detailed requirements for your data management plan (DMP). Funding agency requirements are very specific and our DMP resources can help you to clear up any confusion. [Get Started](#)

**Upload Research Data to Your Project**  
Create a project to upload and share your data with collaborators using our step-by-step form to guide you through the process. Invite collaborators from other institutions to join your project. [Create a Project](#)

**Publish your Dataset**  
Package, describe, and publish your dataset with a Datacite DOI. Publishing will ensure your dataset is citable, reusable, and archived for the long-term. [See Published Datasets](#)

**Featured Dataset**

**Linking Pressure and Saturation through Interfacial Areas in Porous Media**

By V. Niasar, S. Hassanizadeh, L. Pyrak-Nolte, C. Berentsen  
Purdue University, University of Utrecht

Supplementary materials for the paper:  
Cheng, J.-T., L. J. Pyrak-Nolte, D. D. Nolte, and N. J. Giordano (2004)  
Linking pressure and saturation through interfacial areas in porous media

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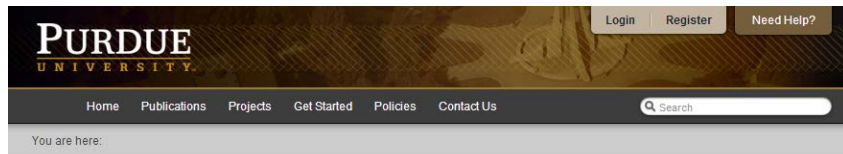
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If difficulties persist, please contact the System Administrator of this site.

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To...



## S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges

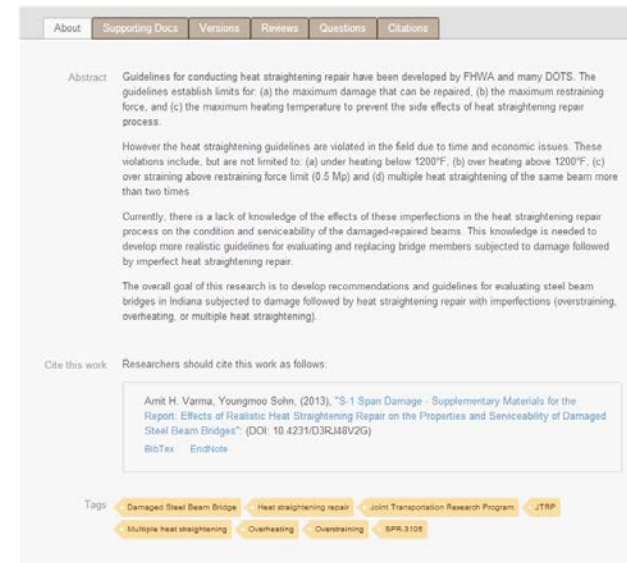
By Amit H. Varma<sup>1</sup>, Youngmoo Sohn<sup>1</sup>  
Purdue University

Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Bridges

Listed in Datasets

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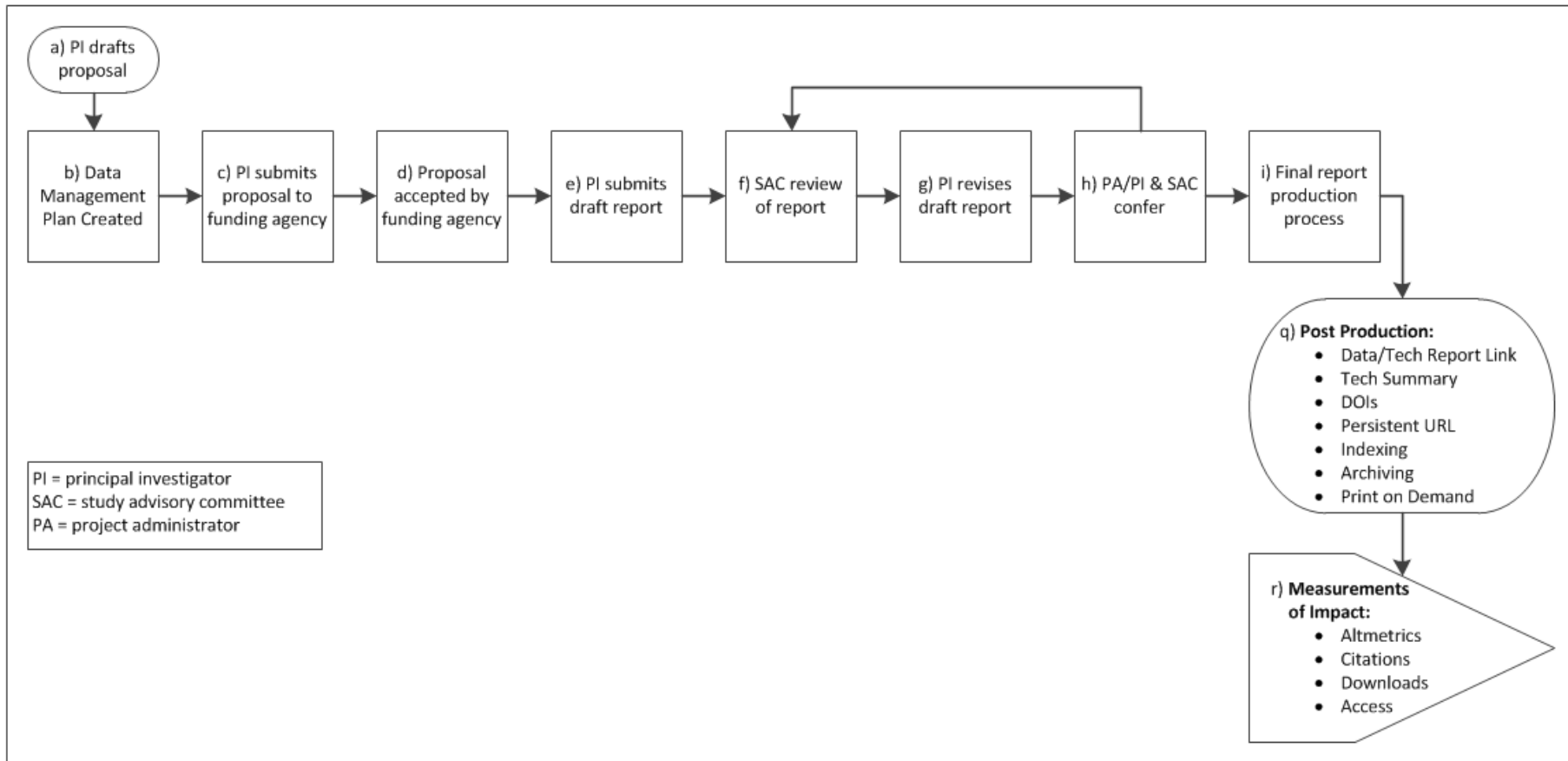




# RESEARCH SUPPORT WORK FLOW MODELS

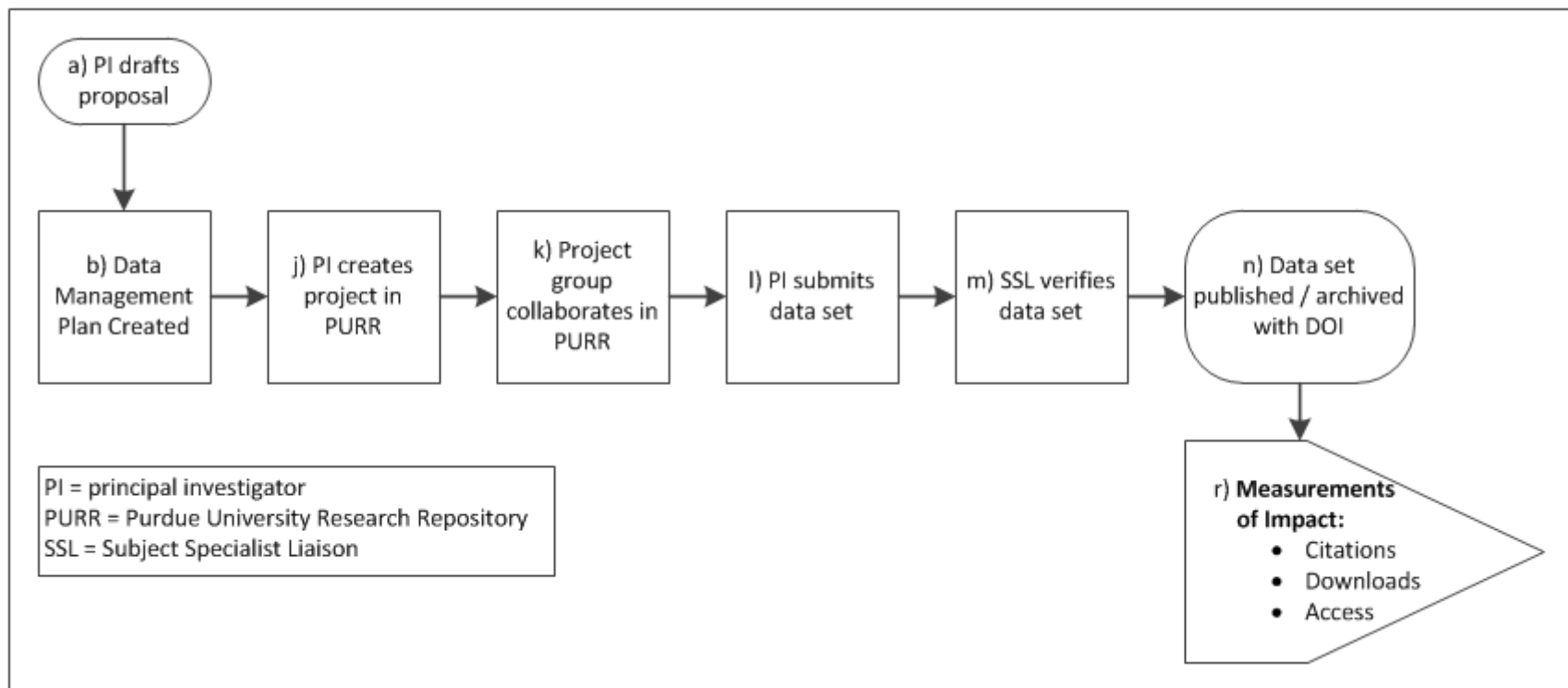
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# PURR WORKFLOW

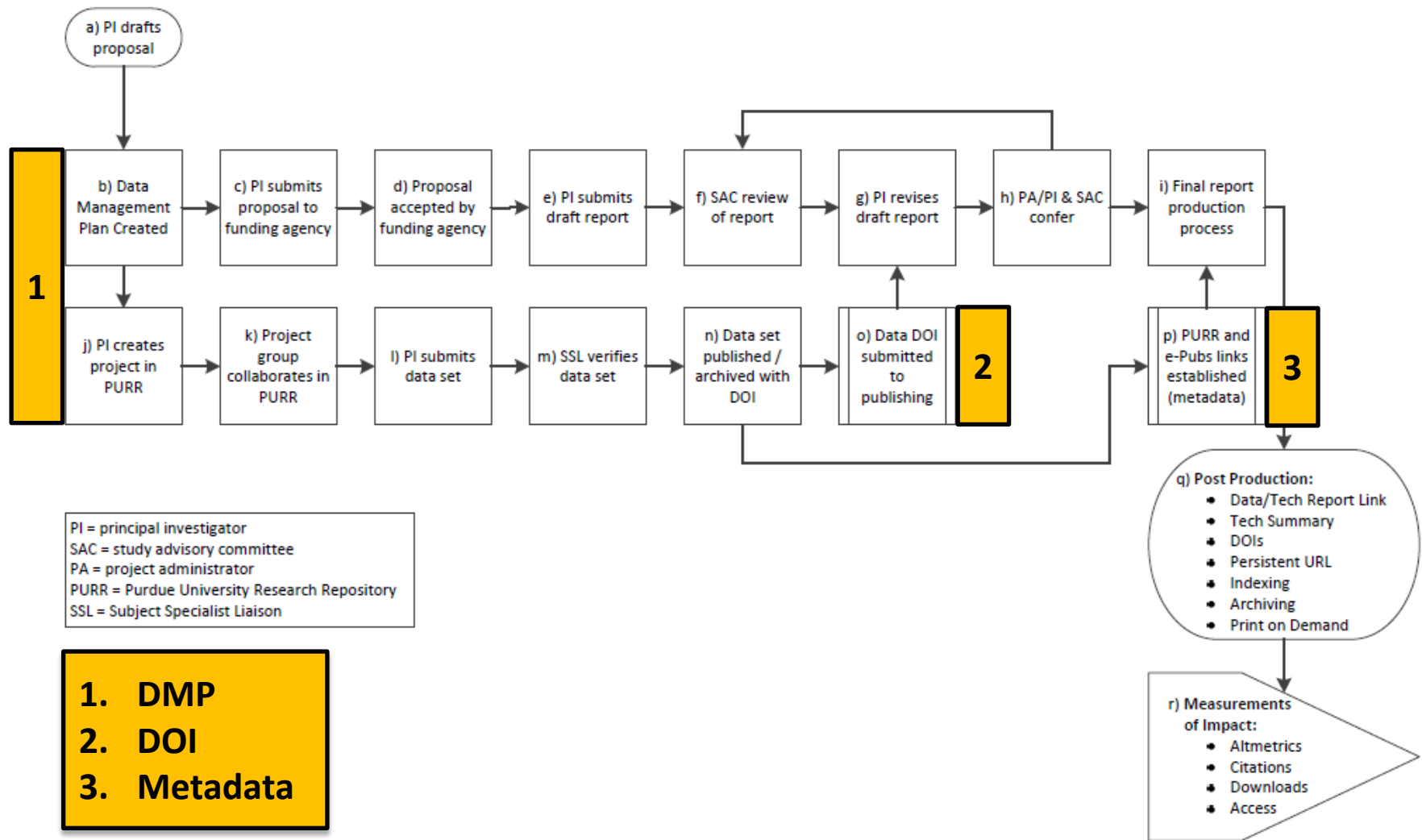
DATA MANAGEMENT PLANNING , COLLABORATION, PUBLISHING, & PRESERVATION





# LINKING TECHNICAL REPORTS AND DATA

# COHESIVE PUBLICATION WORKFLOW



# JTRP LINKED PUBLICATIONS

## TECHNICAL REPORT

- Varma, A. H. and Y. Sohn, "[Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges](#)," Publication FHWA/IN/JTRP-2013/03, Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2013. (DOI: 10.5703/1288284315184).

## DATA

- Amit Varma, Youngmoo Sohn, (2013), "ADJUSTING FORCE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3SF2MC0W](#))
- Amit Varma, Youngmoo Sohn, (2013), "DAMAGED GIRDER - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3X63B541](#))
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 1 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3NS0KX8Z](#))
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 2 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3J09W45G](#))
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 3 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D30Z70W9F](#))
- Amit Varma, Youngmoo Sohn, (2013), "N-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3W66984S](#))
- Amit Varma, Youngmoo Sohn, (2013), "N-2 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D38G8FH7Z](#))
- Amit Varma, Youngmoo Sohn, (2013), "S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3RJ48V2G](#))
- Amit Varma, Youngmoo Sohn, (2013), "S-2 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D34Q7QQ3T](#))
- Amit Varma, Youngmoo Sohn, (2013), "TEMPERATURE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3D795B1Q](#))

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## JTRP TECHNICAL REPORTS

### Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges

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**Youngmoo Sohn**, *Purdue University*

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### Recommended Citation

Varma, A. H., and Y. Sohn. *Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges*. Publication FHWA/IN/JTRP-2013/03. Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2013. doi: 10.5703/1288284315184.

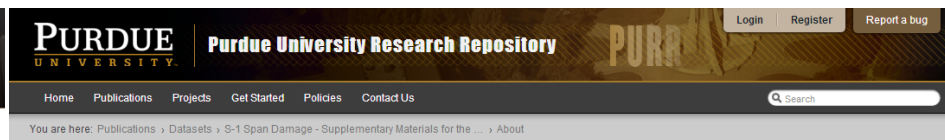
### DOI

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### Comments

Supplementary videos for SPR-3105:

Amit Varma, Youngmoo Sohn, (2013), "S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3RJ48V2G](#))



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### S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges

By **Amit H. Varma**<sup>\*</sup>, **Youngmoo Sohn**<sup>\*</sup>  
*Purdue University*

Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Bridges

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### Citations

Affiliated authors

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Varma, A. H. and Y. Sohn, "Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges," Publication FHWA/IN/JTRP-2013/03, Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2013. (DOI: [10.5703/1288284315184](#)).

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# LINKING DATA

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## JOINT TRANSPORTATION RESEARCH PROGRAM

INDIANA DEPARTMENT OF TRANSPORTATION  
AND PURDUE UNIVERSITY



### Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges



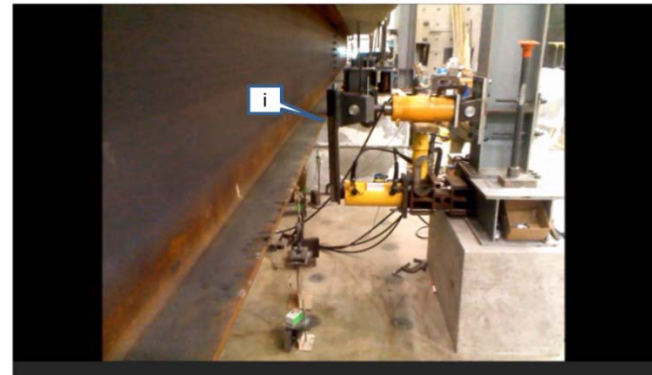
Amit H. Varma

Youngmoo Sohn

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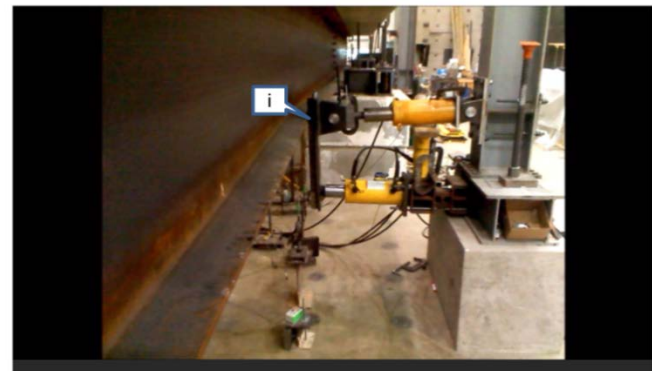
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**JTRP TECHNICAL REPORTS**



**Evaluation of Reclaimed Asphalt Pavement for Surface Mixtures**

**Rebecca S. McDaniel**, *Purdue University*   
**Karol J. Kowalski**, *Warsaw University of Technology*   
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# MOVING FORWARD

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- Usage and access metrics
  - Monitor and evaluate through quantitative and qualitative measurements
  - Communicate impact



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# QUESTION AND COMMENTS

## Thank You

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# RESOURCES

- Executive Office of the President, Office of Science and Technology Policy. Memorandum – Increasing Access to the Results of Federally Funded Scientific Research.  
[http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp\\_public\\_access\\_memo\\_2013.pdf](http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf)
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- National Institutes of Health. Final NIH Statement on Sharing Research Data.  
<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-03-032.html>
- National Institutes of Health. NIH Public Access Policy. <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-08-033.html>
- National Science Foundation. Grant Proposal Guide.  
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[doi: 10.3141/2291-13](https://doi.org/10.3141/2291-13).
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- Purdue University Research Repository (PURR). <https://purrr.purdue.edu/>
- Zilinski, L. D., Scherer, D.A., Bullock, D.M, Horton, D.K. and Matthews, C.E., “Evolution of Data Creation, Management, Publication, and Curation in the Research Process,” Accepted, Transportation Research Board Annual Meeting, January 13, 2014, Paper No. 14-0664.